

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529959

Luminaire Tested: **GALN-SA5A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10054 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

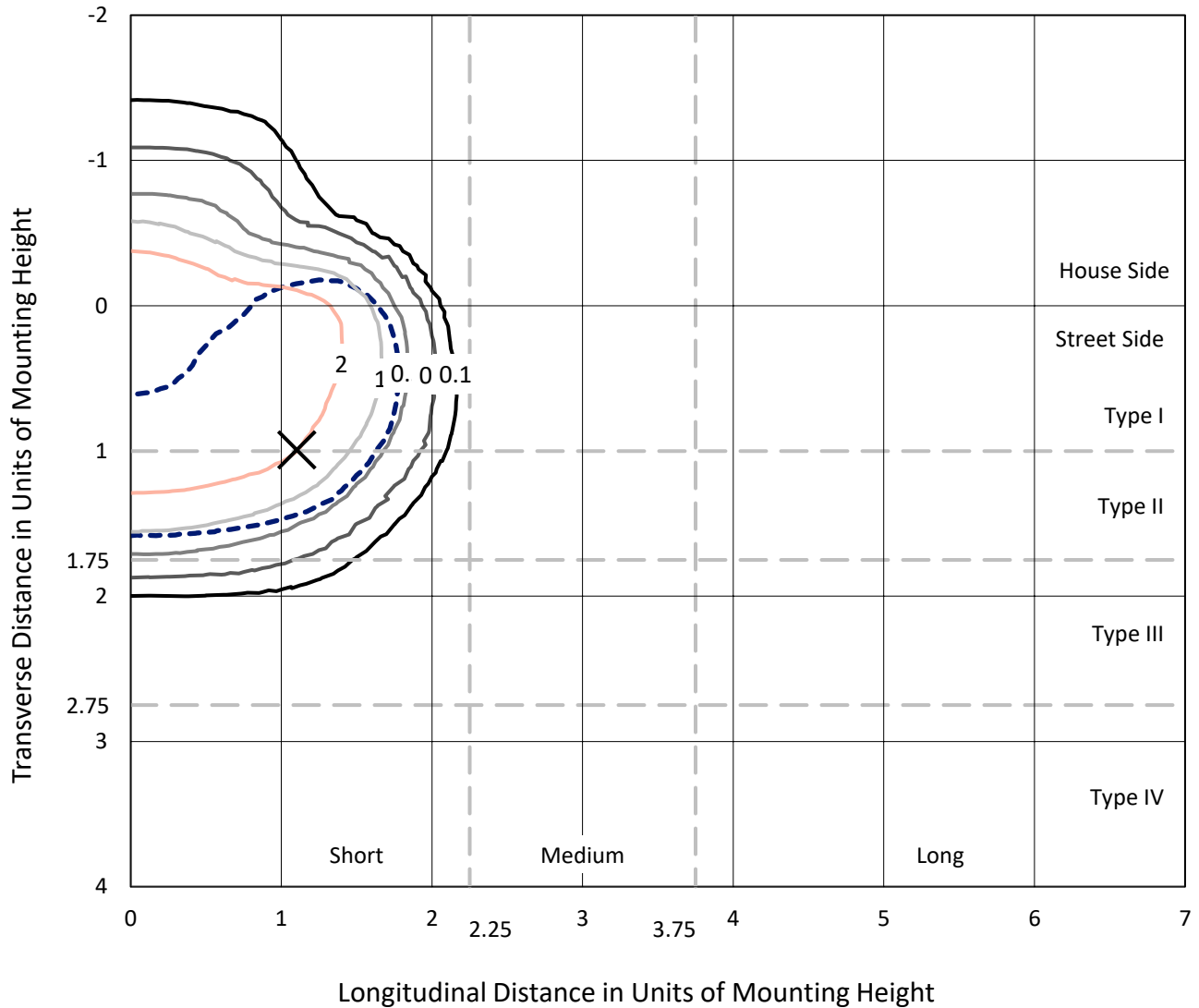
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

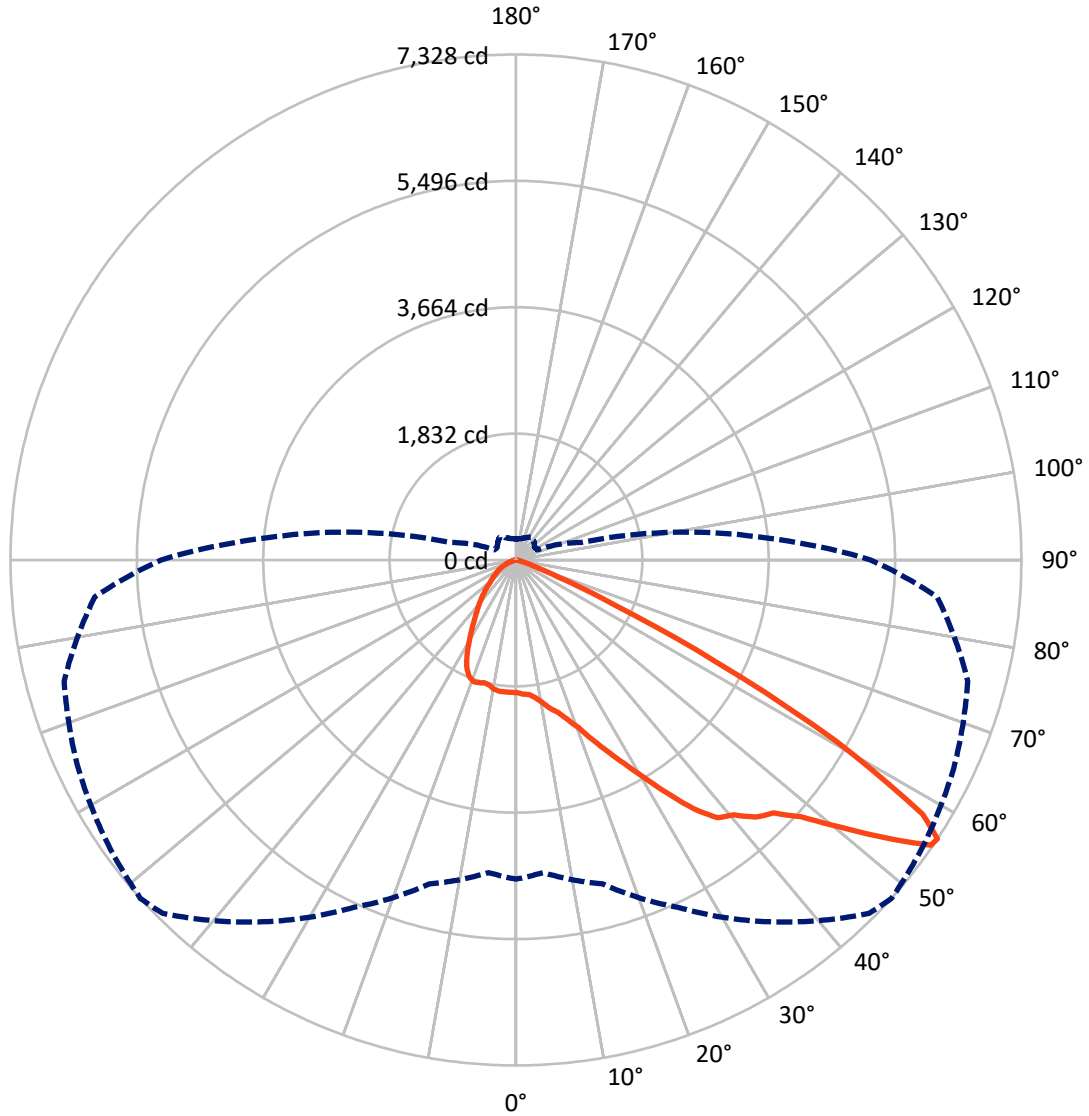
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P529959
CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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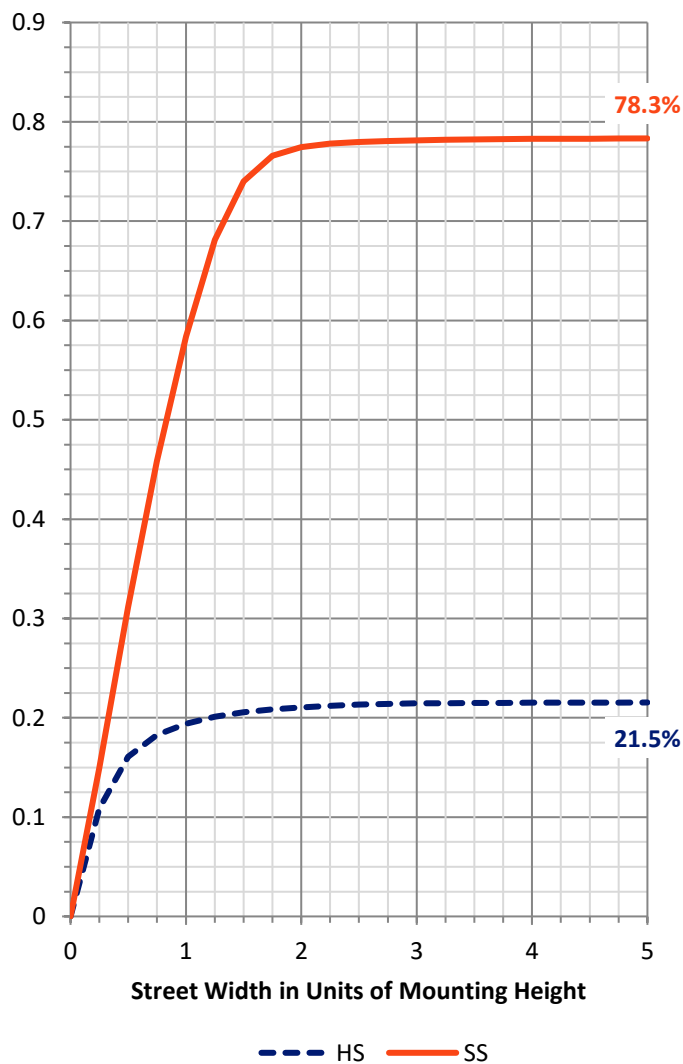
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.6	0.0	2186.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7867.4	0.0	7867.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	10054.0	0.0	10054.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.9
10°-20°	597.8	5.9
20°-30°	1084.3	10.8
30°-40°	1703.2	16.9
40°-50°	2484.7	24.7
50°-60°	2993.6	29.8
60°-70°	876.5	8.7
70°-80°	111.2	1.1
80°-90°	15.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10054.0	100.0
0°-180°	10054.0	100.0

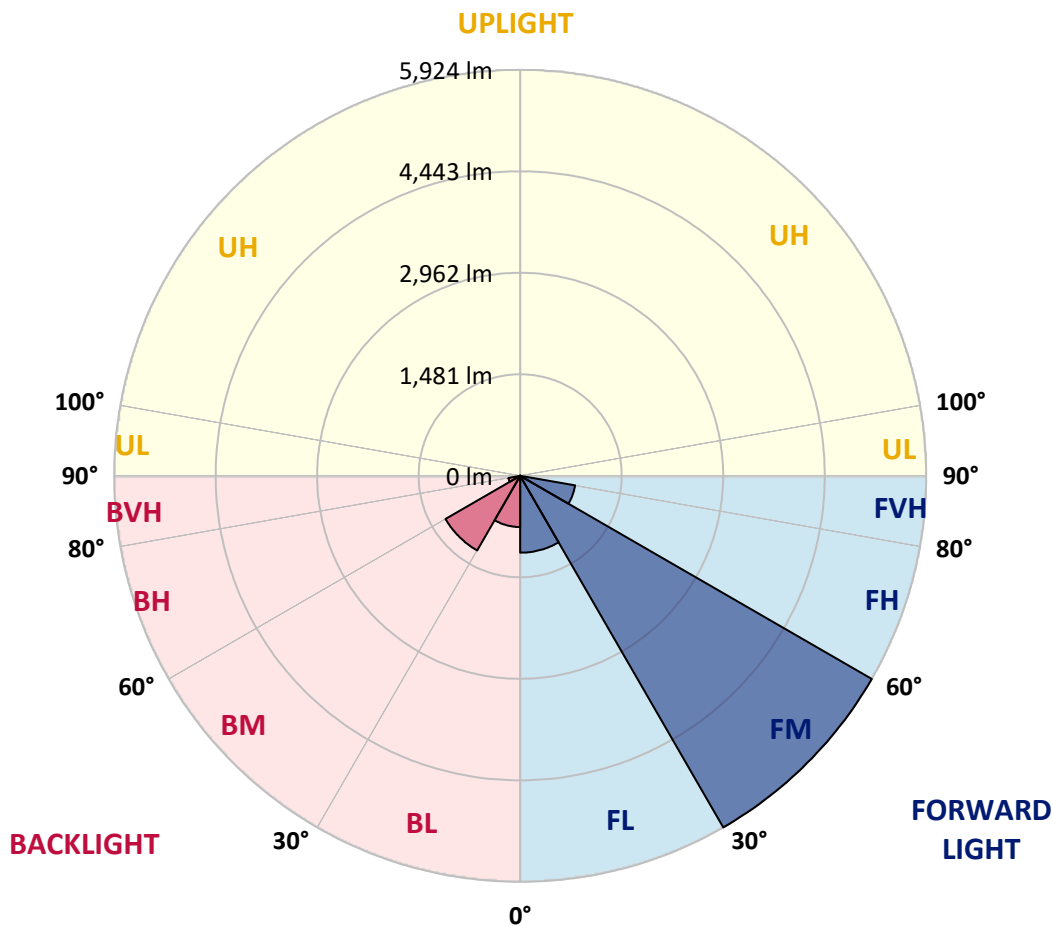


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.8	11.2			
FM (30°-60°)	5923.8	58.9			
FH (60°-80°)	813.9	8.1			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	747.4	7.4	B2/1000		
BM (30°-60°)	1257.7	12.5	B2/2500		
BH (60°-80°)	173.7	1.7	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3
2.5°	1955.1	1945.9	1945.9	1931.3	1947.8	1940.5	1945.9	1927.6	1945.9	1918.5	1940.5
5°	1964.3	1966.1	1958.8	1967.9	1967.9	1978.9	1960.6	1977.1	1986.2	1966.1	1956.9
7.5°	2011.8	2015.5	2013.7	2006.4	2021.0	2019.2	2017.3	2004.5	2008.2	2000.9	1989.9
10°	2105.2	2103.4	2112.5	2094.2	2083.2	2096.1	2099.7	2079.6	2064.9	2059.4	2024.7
12.5°	2240.7	2218.7	2205.9	2187.6	2193.1	2174.8	2207.7	2172.9	2165.6	2132.7	2097.9
15°	2350.5	2346.9	2348.7	2319.4	2286.4	2293.8	2293.8	2275.5	2264.5	2224.2	2174.8
17.5°	2575.7	2498.8	2515.3	2478.7	2451.2	2449.4	2432.9	2436.6	2407.3	2323.1	2248.0
20°	2751.4	2718.5	2692.8	2630.6	2588.5	2601.3	2594.0	2575.7	2566.5	2456.7	2350.5
22.5°	2908.9	2919.8	2877.7	2861.3	2802.7	2808.2	2822.8	2806.3	2736.8	2623.3	2465.8
25°	3130.4	3117.5	3060.8	3040.7	2985.7	3005.9	3062.6	3049.8	3005.9	2800.8	2555.5
27.5°	3392.1	3348.2	3359.2	3267.7	3214.6	3271.3	3339.0	3403.1	3278.6	3009.5	2661.7
30°	3577.0	3531.3	3527.6	3523.9	3511.1	3577.0	3655.7	3714.3	3613.6	3218.2	2837.5
32.5°	3668.6	3679.5	3710.7	3699.7	3811.3	3946.8	4029.2	4113.4	3987.1	3558.7	3069.9
35°	3912.0	3842.5	3912.0	3919.4	4034.7	4322.1	4426.4	4627.8	4596.7	4040.2	3353.7
37.5°	4054.8	4049.3	4058.5	4128.0	4239.7	4594.9	4743.1	4898.7	4840.2	4329.4	3707.0
40°	4291.0	4305.6	4303.8	4356.9	4479.5	4799.9	4860.3	4986.6	4992.1	4730.3	4226.9
42.5°	4669.9	4611.3	4572.9	4627.8	4799.9	4977.5	5098.3	5072.6	5253.9	5217.3	4895.1
45°	5010.4	5045.2	4988.4	5080.0	5142.2	5237.4	5233.7	5288.7	5519.3	5693.2	5398.5
47.5°	5328.9	5350.9	5378.4	5440.6	5576.1	5590.7	5559.6	5535.8	5854.3	6033.7	5788.4
50°	5519.3	5539.5	5667.6	5779.3	6031.9	6064.8	6083.1	6022.7	6238.7	6258.9	6156.4
52.5°	5468.1	5490.0	5669.4	6037.4	6440.1	6742.2	6687.2	6584.7	6571.9	6650.6	6496.9
55°	5014.1	4993.9	5241.1	5814.0	6568.3	7293.2	7300.5	7192.5	6985.6	6932.6	6445.6
56°	4627.8	4549.1	4864.0	5555.9	6403.5	7245.6	7328.0	7212.6	7018.6	6780.6	6128.9
57.5°	3791.2	3866.3	4179.3	4752.3	5834.2	6903.3	6950.9	6923.4	6776.9	6377.9	5393.0
60°	2090.6	2222.4	2498.8	3199.9	4153.7	5297.8	5336.3	5559.6	5587.0	4884.1	3710.7
62.5°	887.8	873.2	1160.6	1676.8	2365.2	3198.1	3269.5	3498.3	3540.4	2815.5	1861.7
65°	360.6	380.8	525.4	843.9	1250.3	1457.2	1557.9	1632.9	1772.0	1162.4	686.5
67.5°	238.0	236.1	309.4	481.5	673.7	649.9	649.9	686.5	635.2	474.1	296.6
70°	170.2	175.7	221.5	333.2	419.2	311.2	298.4	285.6	324.0	313.0	239.8
72.5°	111.7	119.0	148.3	199.5	217.8	170.2	170.2	205.0	267.3	252.6	195.9
75°	73.2	75.1	91.5	115.3	108.0	87.9	97.0	137.3	194.0	186.7	139.1
77.5°	49.4	51.3	62.2	75.1	60.4	49.4	53.1	69.6	95.2	95.2	73.2
80°	18.3	20.1	25.6	23.8	27.5	34.8	38.4	47.6	56.7	56.7	49.4
82.5°	0.0	1.8	5.5	12.8	20.1	27.5	31.1	36.6	42.1	47.6	45.8
85°	0.0	1.8	5.5	9.2	14.6	16.5	18.3	12.8	11.0	11.0	9.2
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529959

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3	1920.3
2.5°	1920.3	1918.5	1918.5	1913.0	1924.0	1918.5	1922.1	1920.3	1896.5	1914.8	1902.0
5°	1940.5	1953.3	1933.1	1929.5	1914.8	1920.3	1920.3	1902.0	1918.5	1916.7	1913.0
7.5°	1991.7	1969.7	1947.8	1925.8	1922.1	1916.7	1896.5	1889.2	1902.0	1887.4	1909.3
10°	2013.7	2017.3	1984.4	1955.1	1927.6	1889.2	1861.7	1845.3	1825.1	1847.1	1859.9
12.5°	2114.4	2077.8	2021.0	1975.2	1881.9	1843.4	1816.0	1808.7	1843.4	1850.8	1837.9
15°	2149.1	2143.7	2070.4	1967.9	1870.9	1825.1	1830.6	1816.0	1819.6	1801.3	1805.0
17.5°	2220.5	2158.3	2072.3	1944.1	1869.1	1858.1	1825.1	1766.5	1733.6	1719.0	1731.8
20°	2299.3	2238.8	2114.4	1953.3	1885.5	1856.2	1748.2	1676.8	1609.1	1572.5	1574.3
22.5°	2368.8	2293.8	2096.1	1956.9	1900.2	1779.4	1649.4	1508.4	1424.2	1367.5	1369.3
25°	2453.0	2346.9	2103.4	1964.3	1861.7	1656.7	1470.0	1332.7	1232.0	1193.6	1206.4
27.5°	2500.6	2379.8	2143.7	1980.7	1761.1	1482.8	1281.4	1153.3	1094.7	1076.4	1074.6
30°	2643.4	2453.0	2193.1	1947.8	1592.6	1296.1	1109.4	1030.6	973.9	957.4	961.1
32.5°	2855.8	2586.7	2257.2	1861.7	1420.6	1129.5	997.7	939.1	886.0	854.9	851.2
35°	3033.3	2815.5	2324.9	1728.1	1221.0	1001.3	919.0	845.7	765.2	730.4	721.3
37.5°	3372.0	3073.6	2310.2	1526.7	1030.6	906.2	834.8	745.1	675.5	627.9	622.4
40°	3822.3	3375.7	2238.8	1281.4	889.7	821.9	745.1	659.0	573.0	532.7	529.0
42.5°	4369.7	3745.4	2108.9	1032.5	748.7	737.7	668.2	569.3	492.4	463.1	465.0
45°	4814.5	4062.1	1977.1	829.3	644.4	655.4	595.0	501.6	448.5	424.7	424.7
47.5°	5209.9	4276.3	1834.3	684.7	547.4	573.0	519.9	465.0	419.2	400.9	397.2
50°	5590.7	4494.2	1691.5	554.7	466.8	492.4	486.9	443.0	406.4	384.4	386.3
52.5°	5828.7	4528.9	1510.3	454.0	408.2	437.5	455.8	415.6	375.3	362.5	358.8
55°	5537.6	4080.4	1171.6	373.4	346.0	384.4	419.2	373.4	342.3	320.4	318.5
56°	5145.9	3648.4	979.4	344.2	327.7	369.8	406.4	357.0	322.2	309.4	300.2
57.5°	4356.9	2985.7	723.1	305.7	303.9	344.2	386.3	340.5	300.2	289.2	289.2
60°	2716.6	1680.5	437.5	256.3	263.6	305.7	347.8	303.9	267.3	267.3	272.8
62.5°	1237.5	699.3	265.4	217.8	227.0	263.6	309.4	274.6	254.5	274.6	278.3
65°	421.0	302.1	192.2	173.9	179.4	217.8	265.4	278.3	276.4	289.2	296.6
67.5°	236.1	194.0	161.1	144.6	141.0	161.1	217.8	278.3	267.3	261.8	265.4
70°	199.5	164.8	142.8	128.1	122.7	130.0	168.4	210.5	188.6	183.1	179.4
72.5°	161.1	137.3	124.5	115.3	98.9	84.2	76.9	80.5	89.7	95.2	104.3
75°	113.5	104.3	104.3	93.4	71.4	53.1	42.1	34.8	23.8	16.5	18.3
77.5°	64.1	64.1	65.9	56.7	45.8	34.8	25.6	18.3	9.2	3.7	1.8
80°	43.9	47.6	51.3	45.8	38.4	31.1	22.0	12.8	5.5	0.0	0.0
82.5°	43.9	49.4	53.1	45.8	38.4	29.3	22.0	12.8	5.5	1.8	0.0
85°	9.2	11.0	12.8	14.6	22.0	22.0	16.5	11.0	5.5	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)